

Rec'd PCT/PTO 11 APR 2005

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For Receiving Office use only

PCT/US 03/31974

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) 40853-01-5083WO

**Box No. I TITLE OF INVENTION**  
ERYTHROPOIETIN: REMODELING AND GLYCOCONJUGATION OF ERYTHROPOIETIN

**Box No. II APPLICANT** ☐ This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  
NEOSE TECHNOLOGIES, INC.  
102 Witmer Road  
Horsham, PA 19044  
United States of America

Telephone No.

Facsimile No.

Teleprinter No.

Applicant's registration No. with the Office

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of: ☐ all designated States ☒ all designated States except the United States of America ☐ the United States of America only ☐ the States indicated in the Supplemental Box

**Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)  
SHAWN DE FREES  
126 Filly Drive  
North Wales, PA 19454  
United States of America

This person is: ☐ applicant only ☒ applicant and inventor ☐ inventor only (If this check-box is marked, do not fill in below)

Applicant's registration No. with the Office

State (that is, country) of nationality: US

State (that is, country) of residence: US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

☒ Further applicants and/or (further) inventors are indicated on a continuation sheet.

**Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: ☒ agent ☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)  
KATHRYN DOYLE, Ph.D., J.D.  
Morgan, Lewis & Bockius, L.L.P.  
1701 Market Street  
Philadelphia, PA 19103  
United States of America

Telephone No.  
215.963.4723

Facsimile No.  
215.963.5001

Teleprinter No.

Agent's registration No. with the Office  
36,317

☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Form PCT/RO/101 (first sheet) (March 2001; reprint January 2003)  
LegalStar 2003, Form PCTREQ

See Notes to the request form

BEST AVAILABLE COPY

## Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not to be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

DAVID ZOPF  
560 W. Beechtree Lane  
Wayne, PA 19087  
United States of America

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ROBERT BAYER  
6105 Dirac Street  
San Diego, CA 92122  
United States of America

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

CARYN BOWE  
310 Maple Avenue  
Doylestown, PA 18901  
United States of America

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

DAVID HAKES  
14 Fern Avenue  
Willow Grove, PA 19090  
United States of America

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
US

State (that is, country) of residence:  
US

This person is applicant for the purposes of: ☐ all designated States ☐ all designated States except the United States of America ☒ the United States of America only ☐ the States indicated in the Supplemental Box

☒ Further applicants and/or (further) inventors are indicated on another continuation sheet.

## Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) XI CHEN 107 Whitney Place Lansdale, PA 19446 United States of America		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality: People's Republic of China	State (that is, country) of residence: US	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)		This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)		This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)		This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office
State (that is, country) of nationality:	State (that is, country) of residence:	
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box		
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.		

**Box No.V DESIGNATION OF STATES**

Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

**Regional Patent**

- ☒ **AP** ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired, specify on dotted line)
- ☒ **EA** Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of
- ☒ **EP** European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- ☒ **OA** OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

**National Patent (if other kind of protection or treatment desired, specify on dotted line):**

- |  |   |  |
|--|---|--|
| <input checked="" type="checkbox"/> <b>AE</b> United Arab Emirates                   | <input checked="" type="checkbox"/> <b>GM</b> Gambia                                    | <input checked="" type="checkbox"/> <b>NZ</b> New Zealand                      |
| <input checked="" type="checkbox"/> <b>AG</b> Antigua and Barbuda                    | <input checked="" type="checkbox"/> <b>HR</b> Croatia                                   | <input checked="" type="checkbox"/> <b>OM</b> Oman                             |
| <input checked="" type="checkbox"/> <b>AL</b> Albania                                | <input checked="" type="checkbox"/> <b>HU</b> Hungary                                   | <input checked="" type="checkbox"/> <b>PH</b> Philippines                      |
| <input checked="" type="checkbox"/> <b>AM</b> Armenia                                | <input checked="" type="checkbox"/> <b>ID</b> Indonesia                                 | <input checked="" type="checkbox"/> <b>PL</b> Poland                           |
| <input checked="" type="checkbox"/> <b>AT</b> Austria                                | <input checked="" type="checkbox"/> <b>IL</b> Israel                                    | <input checked="" type="checkbox"/> <b>PT</b> Portugal                         |
| <input checked="" type="checkbox"/> <b>AU</b> Australia                              | <input checked="" type="checkbox"/> <b>IN</b> India                                     | <input checked="" type="checkbox"/> <b>RO</b> Romania                          |
| <input checked="" type="checkbox"/> <b>AZ</b> Azerbaijan                             | <input checked="" type="checkbox"/> <b>IS</b> Iceland                                   | <input checked="" type="checkbox"/> <b>RU</b> Russian Federation               |
| <input checked="" type="checkbox"/> <b>BA</b> Bosnia and Herzegovina                 | <input checked="" type="checkbox"/> <b>JP</b> Japan                                     |  |
| <input checked="" type="checkbox"/> <b>BB</b> Barbados                               | <input checked="" type="checkbox"/> <b>KE</b> Kenya                                     | <input checked="" type="checkbox"/> <b>SC</b> Seychelles                       |
| <input checked="" type="checkbox"/> <b>BG</b> Bulgaria                               | <input checked="" type="checkbox"/> <b>KG</b> Kyrgyzstan                                | <input checked="" type="checkbox"/> <b>SD</b> Sudan                            |
| <input checked="" type="checkbox"/> <b>BR</b> Brazil                                 | <input checked="" type="checkbox"/> <b>KP</b> Democratic People's Republic of Korea     | <input checked="" type="checkbox"/> <b>SE</b> Sweden                           |
| <input checked="" type="checkbox"/> <b>BY</b> Belarus                                | <input checked="" type="checkbox"/> <b>KR</b> Republic of Korea                         | <input checked="" type="checkbox"/> <b>SG</b> Singapore                        |
| <input checked="" type="checkbox"/> <b>BZ</b> Belize                                 | <input checked="" type="checkbox"/> <b>KZ</b> Kazakhstan                                | <input checked="" type="checkbox"/> <b>SK</b> Slovakia                         |
| <input checked="" type="checkbox"/> <b>CA</b> Canada                                 | <input checked="" type="checkbox"/> <b>LC</b> Saint Lucia                               | <input checked="" type="checkbox"/> <b>SL</b> Sierra Leone                     |
| <input checked="" type="checkbox"/> <b>CH &amp; LI</b> Switzerland and Liechtenstein | <input checked="" type="checkbox"/> <b>LK</b> Sri Lanka                                 | <input checked="" type="checkbox"/> <b>TJ</b> Tajikistan                       |
| <input checked="" type="checkbox"/> <b>CN</b> China                                  | <input checked="" type="checkbox"/> <b>LR</b> Liberia                                   | <input checked="" type="checkbox"/> <b>TM</b> Turkmenistan                     |
| <input checked="" type="checkbox"/> <b>CO</b> Colombia                               | <input checked="" type="checkbox"/> <b>LS</b> Lesotho                                   | <input checked="" type="checkbox"/> <b>TN</b> Tunisia                          |
| <input checked="" type="checkbox"/> <b>CR</b> Costa Rica                             | <input checked="" type="checkbox"/> <b>LT</b> Lithuania                                 | <input checked="" type="checkbox"/> <b>TR</b> Turkey                           |
| <input checked="" type="checkbox"/> <b>CU</b> Cuba                                   | <input checked="" type="checkbox"/> <b>LU</b> Luxembourg                                | <input checked="" type="checkbox"/> <b>TT</b> Trinidad and Tobago              |
| <input checked="" type="checkbox"/> <b>CZ</b> Czech Republic                         | <input checked="" type="checkbox"/> <b>LV</b> Latvia                                    |  |
| <input checked="" type="checkbox"/> <b>DE</b> Germany                                | <input checked="" type="checkbox"/> <b>MA</b> Morocco                                   | <input checked="" type="checkbox"/> <b>TZ</b> United Republic of Tanzania      |
| <input checked="" type="checkbox"/> <b>DK</b> Denmark                                | <input checked="" type="checkbox"/> <b>MD</b> Republic of Moldova                       | <input checked="" type="checkbox"/> <b>UA</b> Ukraine                          |
| <input checked="" type="checkbox"/> <b>DM</b> Dominica                               |   | <input checked="" type="checkbox"/> <b>UG</b> Uganda                           |
| <input checked="" type="checkbox"/> <b>DZ</b> Algeria                                | <input checked="" type="checkbox"/> <b>MG</b> Madagascar                                | <input checked="" type="checkbox"/> <b>US</b> United States of America         |
| <input checked="" type="checkbox"/> <b>EC</b> Ecuador                                | <input checked="" type="checkbox"/> <b>MK</b> The former Yugoslav Republic of Macedonia |  |
| <input checked="" type="checkbox"/> <b>EE</b> Estonia                                | <input checked="" type="checkbox"/> <b>MN</b> Mongolia                                  | <input checked="" type="checkbox"/> <b>UZ</b> Uzbekistan                       |
| <input checked="" type="checkbox"/> <b>ES</b> Spain                                  | <input checked="" type="checkbox"/> <b>MW</b> Malawi                                    | <input checked="" type="checkbox"/> <b>VC</b> Saint Vincent and the Grenadines |
| <input checked="" type="checkbox"/> <b>FI</b> Finland                                | <input checked="" type="checkbox"/> <b>MX</b> Mexico                                    | <input checked="" type="checkbox"/> <b>VN</b> Viet Nam                         |
| <input checked="" type="checkbox"/> <b>GB</b> United Kingdom                         | <input checked="" type="checkbox"/> <b>MZ</b> Mozambique                                | <input checked="" type="checkbox"/> <b>YU</b> Yugoslavia                       |
| <input checked="" type="checkbox"/> <b>GD</b> Grenada                                | <input checked="" type="checkbox"/> <b>NO</b> Norway                                    | <input checked="" type="checkbox"/> <b>ZA</b> South Africa                     |
| <input checked="" type="checkbox"/> <b>GE</b> Georgia                                |   | <input checked="" type="checkbox"/> <b>ZM</b> Zambia                           |
| <input checked="" type="checkbox"/> <b>GH</b> Ghana                                  |   | <input checked="" type="checkbox"/> <b>ZW</b> Zimbabwe                         |

Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

**Supplemental Box**

*If the Supplemental Box is not used, this sheet should not be included in the request*

1. *If, in any of the Boxes, except Boxes Nos VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information in such case, write "Continuation of Box No. ..." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:*
  - (i) *if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below,*

ALV AREZ, Kathryn  
TUSCAN, Michael  
VEITENHEIMER, Erich  
WEIMAR, Elizabeth  
BEARDELL, Louis  
SOSSONG, Thomas  
GRIFFIN, Gail  
BRENNAN, Justin  
NGUYEN, Quang

All above attorneys or agents are members of Morgan, Lewis & Bockius, L.L.P. Address, etc. of all is as indicated in Box IV
  - (ii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant,*
  - (iii) *if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;*
  - (iv) *if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;*
  - (v) *if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;*
  - (vi) *if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.*
2. *If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.*

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is		
		national application: country or Member of WTO	regional application* regional Office	international application receiving Office
item (1) 09 October 2002 09/10/2002	PCT/US02/32263	PCT		
item (2) 05 November 2002 05/11/2002	10/287,994	US		
item (3) 06 January 2003 06/01/2003	10/360,770	US		
item (4) 17 March 2003 17/03/2003	10/369,779	US		
item (5) 09 April 2003 09/04/2003	10/410,945	US		

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☐ all items ☒ item (1) ☒ item (2) ☒ item (3) ☒ item (4) ☒ item (5) ☐ other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4 10(b)(iv))

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen, the two-letter code may be used):

ISA/ US

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of  
declarations

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i)   | Declaration as to the identity of the inventor   | : |
| <input type="checkbox"/> Box No. VIII (ii)  | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent             | . |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv)  | Declaration of inventorship (only for the purposes of the designation of the United States of America)                               | . |
| <input type="checkbox"/> Box No. VIII (v)   | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty   | : |

PCT/RO/101/71974

**Box No. IX CHECK LIST; LANGUAGE OF FILING**

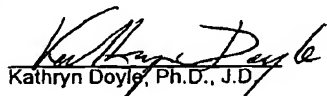
<b>This international application contains:</b> <b>(a) in paper form, the following number of sheets:</b> request (including declaration sheets) : 7 description (excluding sequence listings and/or tables related thereto) : 431 claims : 9 abstract : 1 drawings : 498 Sub-total number of sheets : 946 sequence listings : tables related thereto : (for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below) : 79 <b>Total number of sheets</b> : 1,025 <b>(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))</b> (i) <input type="checkbox"/> sequence listings (ii) <input type="checkbox"/> tables related thereto <b>(c) <input checked="" type="checkbox"/> also in computer readable form (Section 801(a)(ii))</b> (i) <input type="checkbox"/> sequence listings (ii) <input type="checkbox"/> tables related thereto <b>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the</b> <input checked="" type="checkbox"/> sequence listings: one diskette <input type="checkbox"/> tables related thereto: (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)		<b>This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):</b> 1. <input checked="" type="checkbox"/> fee calculation sheet : 1 2. <input type="checkbox"/> original separate power of attorney : 3. <input checked="" type="checkbox"/> original general power of attorney : 1 4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: : 5. <input type="checkbox"/> statement explaining lack of signature : 6. <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): : 7. <input type="checkbox"/> translation of international application into (language): : 8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : 1 9. <input checked="" type="checkbox"/> sequence listings in computer readable form (indicate type and number of carriers) (i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) (ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter : (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left : 10. <input type="checkbox"/> tables in computer readable form related to sequence listings (indicate type and number of carriers) (i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application) (ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column : 11. <input checked="" type="checkbox"/> other (specify) PCT Transmittal : 1	
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Figure of the drawings which should accompany the abstract: Figs. 1-498

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